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NOTE ON THE NEW NEBULA IN AURIGA.

The 36-inch telescope was recently turned to the region of the interesting nebula, discovered by photography (see *Publ. A. S. P.*, No. 22), connecting the stars W. B. 5^h, Nos. 151 and 162. It is safe to say that if the observers had not known just where to look for the nebula nothing unusual would have been noticed in the visual observations. None of the detail so plainly shown on the photographs can be recognized with certainty. Prof. CAMPBELL found nothing unusual in the spectra of the two stars. J. M. S.

APPOINTMENT OF MR. TOWNLEY IN THE LICK OBSERVATORY.

Mr. S. D. TOWNLEY, B. S. (1890), M. S. (1892), of the University of Wisconsin, has been appointed PHEBE HEARST Fellow in Astronomy in the Lick Observatory for one year from July 1, 1892. E. S. H.

A GRADUATE SCHOOL OF ASTRONOMY AT MOUNT HAMILTON.*

"At this season, when we are hearing of so many summer schools of various sorts, it may be interesting to say a few words about the school of practical and theoretical astronomy which has grown up at Mount Hamilton as a part of the graduate system of the University of California.

"All the under-graduate instruction in astronomy in the university is given at Berkeley, where there is a capital students' observatory, well equipped with everything suitable for teaching the art of astronomical observation to college students. This students' observatory is under the charge of one of the instructors of the university who has himself received his training at the Lick Observatory and who arranges the courses at Berkeley so as to lead directly to higher work to be given at Mount Hamilton.

"Admission to the Graduate School is ordinarily granted to graduates of the University of California and also to graduates of other colleges of like standing, as well as to other persons of suitable age and attainments. Students at the Lick Observatory may either be candidates for some one of the higher degrees of the university (as Master of Arts, Master of Science, Doctor of Philosophy, etc.), or they may be special students seeking special instruction in some particular department of astronomy, which they have better opportunities to study at Mount Hamilton than elsewhere.

* Reprinted from the *San José Mercury*.

“The higher degrees mentioned are only given after a severe course of study which extends over three full years in the case of the Doctor’s degree, for example; and even then they are not given for mere faithfulness in the performance of allotted tasks, but it is required that the candidate should show genuine power to advance knowledge by his original work, as well as acquire it from the work of others.

“The courses for special students are so arranged as to offer facilities to such professors and instructors in astronomy in other colleges as can afford to spend several months in actual work at Mount Hamilton, and it is a noteworthy fact that quite a number of such gentlemen—full professors, etc.—have already availed themselves of the opportunity. The Regents of the university have provided comfortable (unfurnished) quarters on the mountain and the only expenses to a student are his board (about \$30 per month) and the cost of materials which he uses in his photographic and other work. As in all other departments of the University, the tuition itself is absolutely free.

“Mrs. HEARST has given a special fund to be used in aid of scientific work at the Lick Observatory, and a portion of this fund is available for paying a part of the necessary expenses of such advanced students as may be elected Fellows in astronomy by the Regents. Such Fellows are selected from students who have already made decided progress in their work and especially from those who are candidates for one of the higher degrees and who therefore intend to devote several years to the study of their profession.

“A list of the students now on the books of the observatory will give some idea of the class of persons who are attracted here and who find their best opportunities at Mount Hamilton and who, therefore, are no longer obliged to go abroad to seek what they want. They are:

“W. E. DOWNS, a graduate of the University of California, with the degree of B. S. in 1888, who is a candidate for the Doctor’s degree.

“W. J. HUSSEY, a graduate of the University of Michigan, 1889, who is Assistant Professor of Astronomy in the Stanford University. Special.

“H. C. LORD, a graduate of the University of Wisconsin, 1889, who is instructor in astronomy in the State University of Ohio. Special.

"A. O. LEUSCHNER, a graduate of the University of Michigan, 1888, who is instructor in the University of California at Berkeley and who is a candidate for the Doctor's degree.

"D. W. MURPHY, a graduate of the Stanford University, 1892. Special.

"S. D. TOWNLEY, a graduate of the University of Wisconsin, 1890, and Hearst Fellow of Astronomy in the Lick Observatory, who is a candidate for the Doctor's degree.

"There are already several applications on file for admission to the observatory during the next year.

"It is clear from this list that a real need for a graduate school of the highest class exists in America; that the Lick Observatory is ready to fill the want and to give true university instruction after the more elementary college work has been done at Berkeley and elsewhere.

"It should be obvious to all Californians that their State University is growing by leaps and bounds in very many of its departments; and in no department, perhaps, more rapidly than in the Lick Observatory."

EDWARD S. HOLDEN.

July 19, 1892.

TOTAL SOLAR ECLIPSE OF APRIL 16, 1893.

It is understood that the total eclipse of April 16, 1893, is to be observed by a French party under MM. BIGOURDAN and DESLANDRES in Senegal. The French Chambers have been asked to appropriate 17,000 francs for the necessary expenses.

It is probable that three parties will take station in Chili: namely, a party from the Arequipa station of the Harvard College Observatory; a Chilian party; and the Lick Observatory party under Professor SCHAEBERLE. So far as I know the stations of parties to be sent by the Royal Astronomical Society are not yet determined upon. At least one party from the Observatory of Rio Janeiro will observe the eclipse in Brazil, and it is possible that Professor PRITCHETT may again organize an expedition from Washington University, Saint Louis. E. S. H.

INVESTIGATION OF THE SYSTEMS OF BRIGHT STREAKS ON THE MOON.

Dr. OTTO BOEDDICKER, Astronomer of Lord ROSSE's Observatory, has kindly offered to begin the study of the systems of